How can Healthcare Providers Reduce the Impacts of Climate Change?

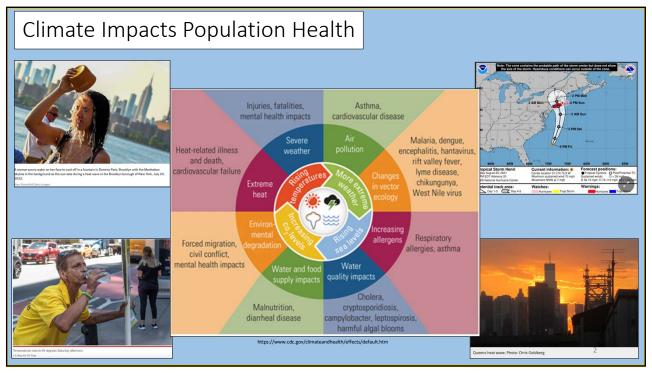
Commissioner's Medical Grand Rounds:

Clinical Intervention and Community Engagement for Climate Change

Anjali Sauthoff

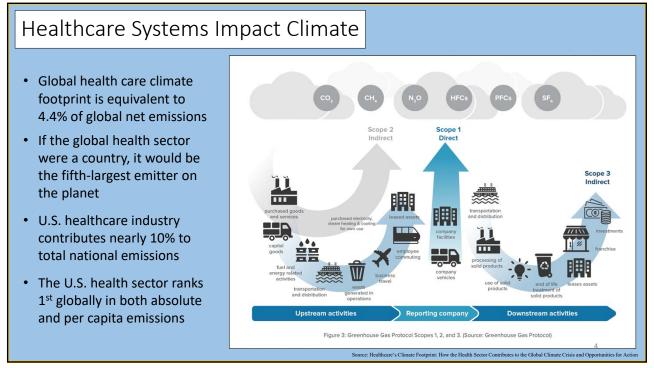
March 24, 2023

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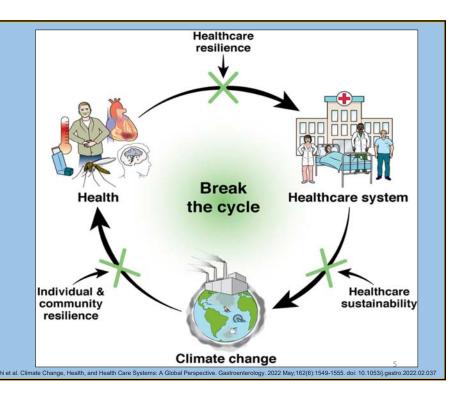


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<u>Overview</u>

- Adaptation feasibility study
- Mitigation in healthcare
- Health equity
- Opportunities and needs

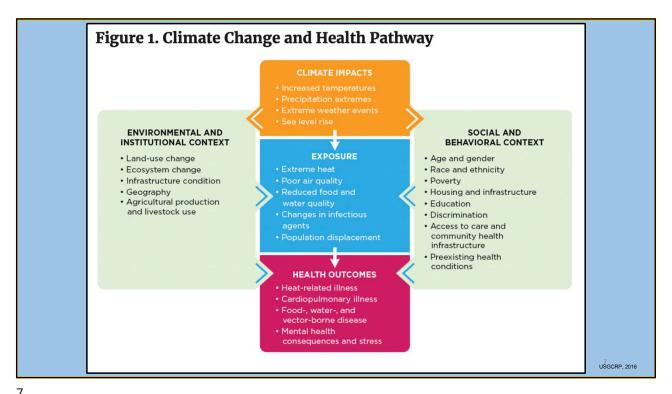


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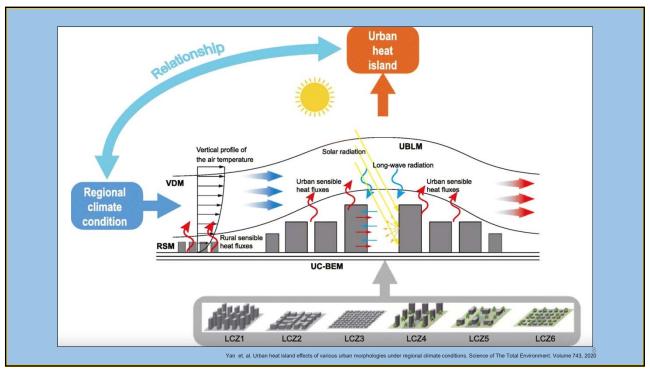
Vulnerable Populations

- Low-income
- Pregnant women
- Older adults
- Occupational groups
- People with pre-existing medical conditions
- People with disabilities
- Geographic location
- Children
- Indigenous
- Unhoused





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"There is no such thing as a singleissue struggle because we don't live single issue lives."

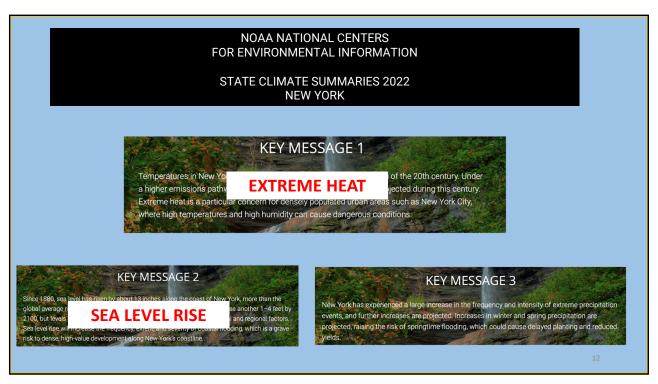
Audre Lorde

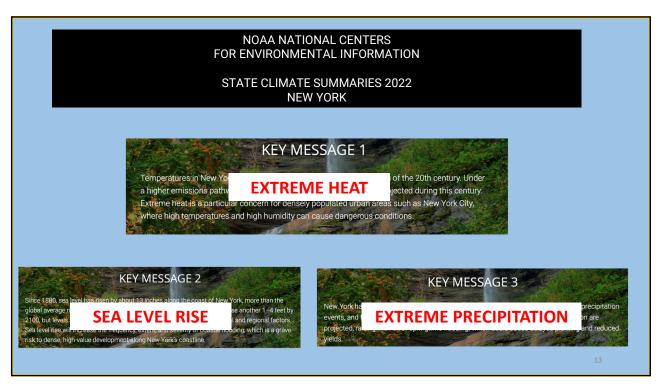


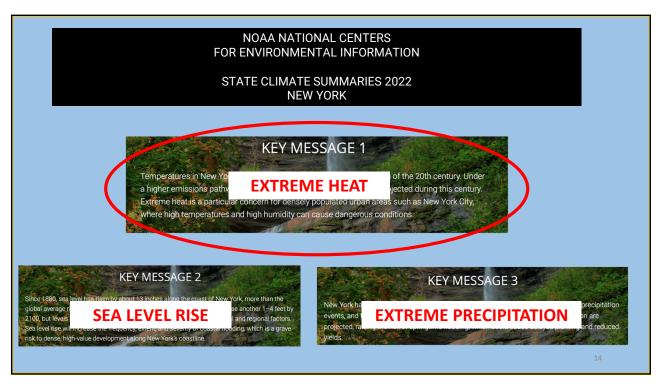
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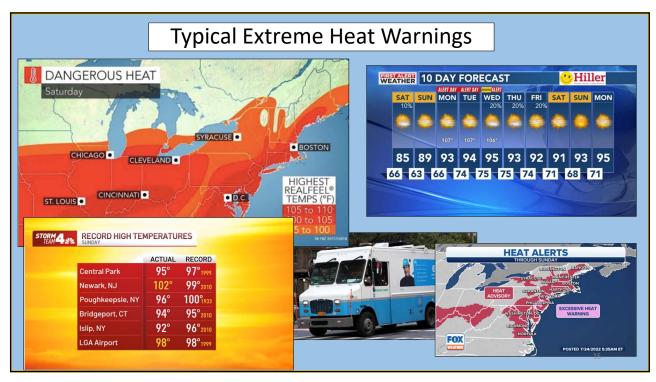


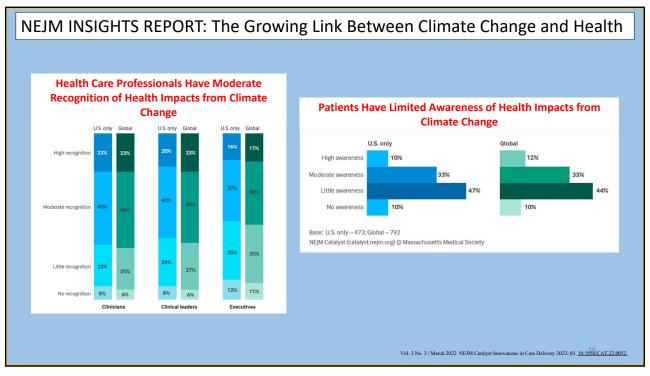


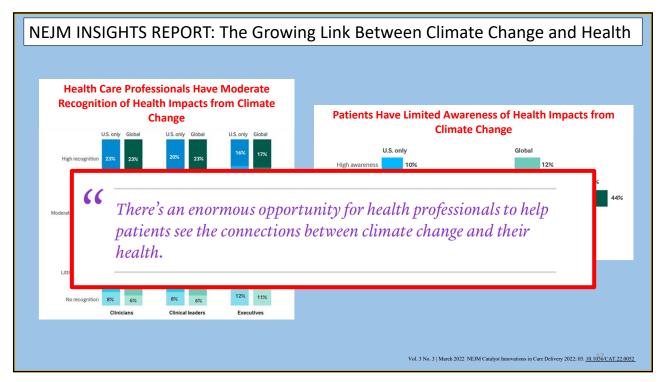


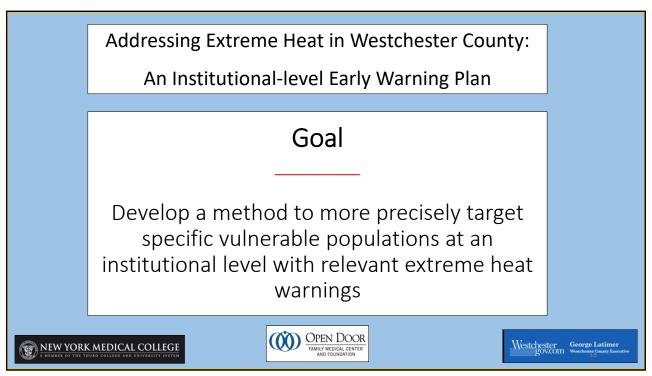


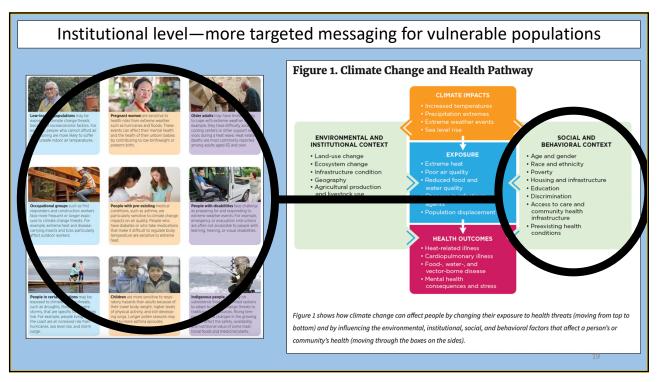


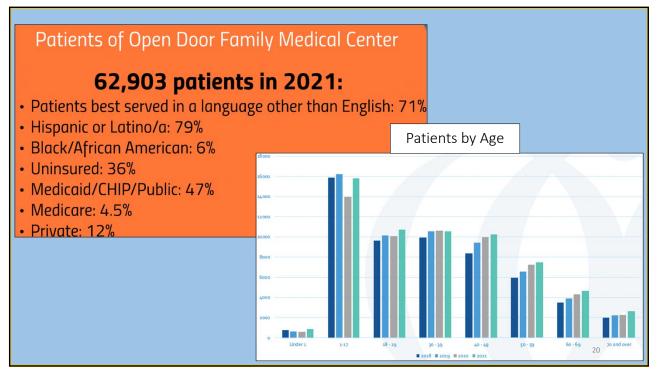












Open Door: Focus on Social Determinants of Health



Documentation of self-identified needs and circumstances in areas such as housing, education, employment, insurance, basic material needs, transportation, and social integration

2https://prapare.org

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What can we leverage?

- 1. Information on underlying medical conditions
 - 2. Social determinants of health data
- 3. 96% of all Open Door patients have cell phones
- 4. COVID communication platform—text messaging

Methods

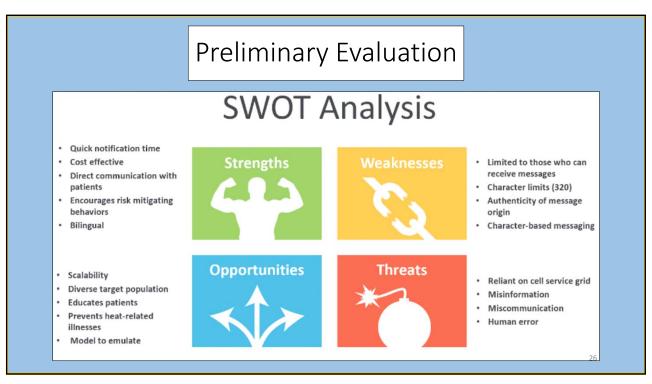
- Background research
- Considerations:
 - o Text fatigue, platform, language
 - o What defines success--Awareness? Health outcome data?
 - Capstone constraints
- Developed messaging—text messaging, flyers, video monitors
- Healthcare provider discussion with vulnerable patients

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Timing of Text Messaging **Beginning the Alert NWS Heat Index** Temperature (°F) 80 82 84 86 88 90 92 94 96 98 100 102 104 106 108 110 Heat information from the 99 103 108 113 118 124 131 137 84 86 89 93 97 101 106 112 117 124 130 137 National Weather Service 82 84 88 91 95 100 105 110 116 123 129 82 85 89 93 98 103 108 114 121 **128 136** 90 95 100 105 112 119 84 88 92 97 103 109 116 124 Extreme Caution – Notification 84 89 94 100 106 113 121 129 85 90 96 102 110 117 86 91 98 105 113 122 **131** to vulnerable groups 86 93 100 108 117 Likelihood of Heat Disorders with Prolonged Exposure or Strenuous Activity Danger – Notification to all Caution Extreme Caution Danger Extreme Danger groups (NOAA's National Weather Service, 2019)





Evaluation, Cont'd

- Staff capacity
- Patient feedback
- Healthcare provider feedback
- Resources, support, training

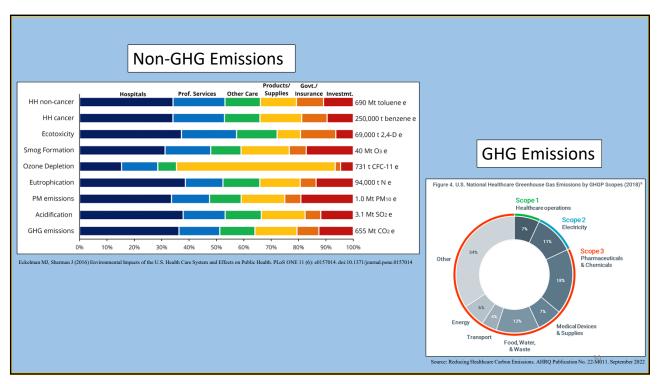
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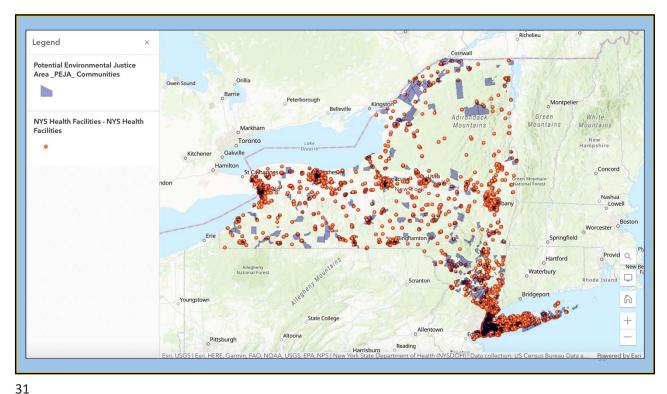
Next Steps

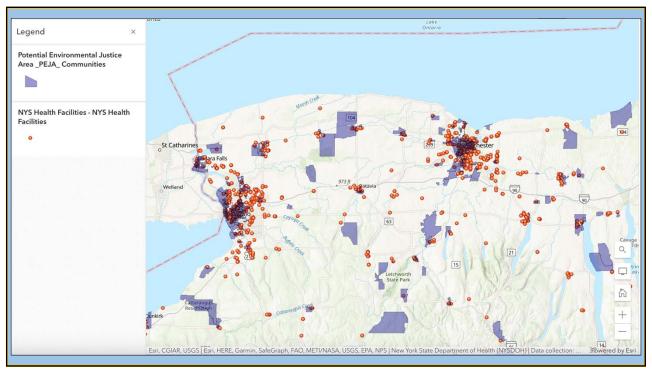
- Social determinants of health, health equity, advocacy
- Partnership opportunities
- Extension to other climate impacts (i.e. vector, food, water-borne diseases, mold, flooding, etc.) ?
- Funding opportunities

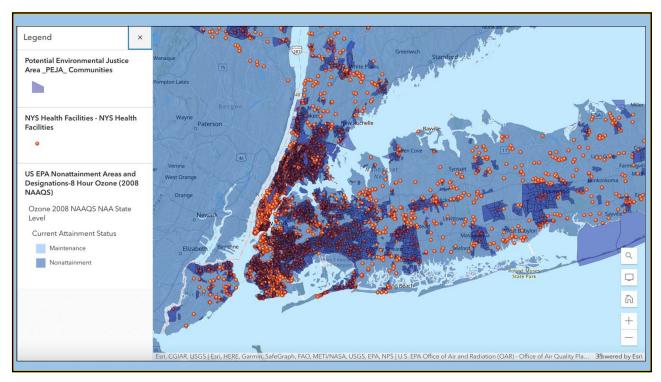
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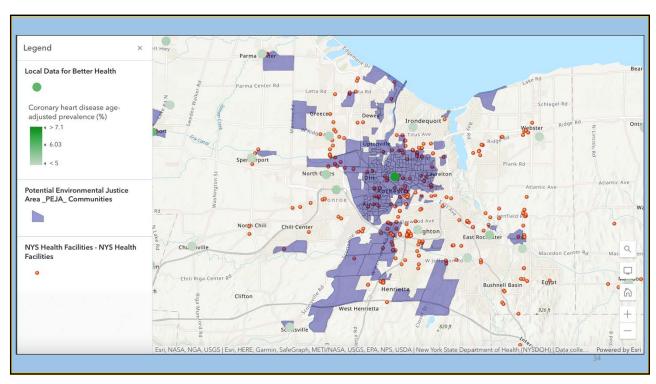








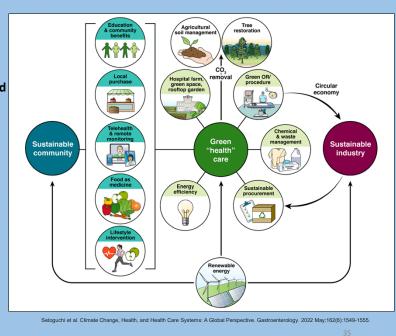




SEVEN HIGH-IMPACT ACTIONS:

- 1. Power health care with 100% clean, renewable electricity.
- 2. Invest in zero emissions buildings and infrastructure.
- 3. Transition to zero emissions, sustainable travel and transport.
- 4. Provide healthy, sustainably grown food.
- 5. Incentivize and produce low-carbon pharmaceuticals.
- 6. Implement circular health care and sustainable health care waste management.
- 7. Establish greater health system effectiveness

Source: Global Road Map for Health Care Decarbonization. Health Care Without Harm Climate-Smart Health Care Series



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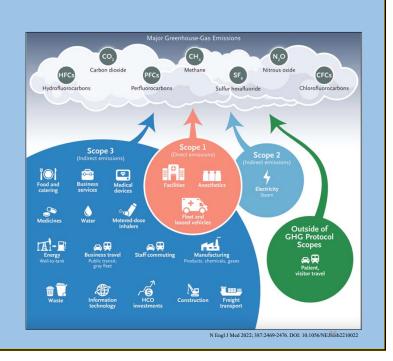
Data: Critical Enabler

Adaptation

- · Social determinants of health
- Environmental determinants of health
- · Current and future climate impacts
- Geospatial data

Mitigation

- Scope 1, 2, 3 emissions
- Air quality data



Thank You



- Lindsay Farrell, Executive Director Open Door Family Medical Center
- Grace Battaglia, Denise Egan, Open Door Family Medical Center
- **Dr. Michael Shakarjian**, Assistant Professor for the Public Health Programs at New York Medical College's School of Health Sciences and Practice
- Peter McCartt, Westchester County Director of Energy and Sustainability, Climate Crisis Task Force
- New York State Department of Health





